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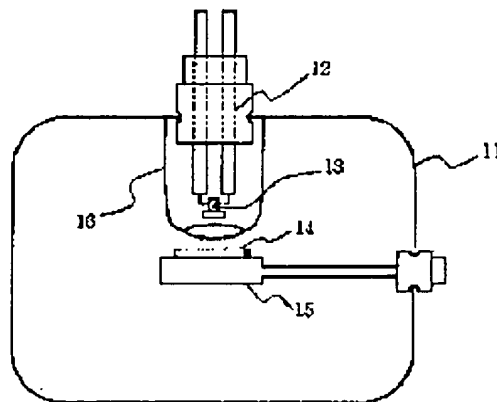
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(54) MANUFACTURE OF FINE CONDUCTOR

(57)Abstract:

PURPOSE: To manufacture a fine conductor in a simple process by accumulating metal or a compound on the surface of a nanotube or a graphite very fine particle in vacuum or in rare gas atmosphere, then intercalating it.

CONSTITUTION: A power source is connected to a current introducing terminal 12, a potassium vapor deposition source 13 in a vacuum bath 11 is heated by supplying electricity, potassium is vapor-deposited 10nm on a carbon nanotube 14 on a sample holder 15. By leaving it in a vacuum for 10 days at room temperature, potassium is intercalated in the carbon nanotube and a fine conductor is manufactured. The fine conductor is manufactured in a simple process of vacuum vapor deposition without preparation of a container dedicated to intercalation.



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